

Oliver Clark

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EDUCATION

- **McGill University** Montreal, QC, Canada
Faculty of Engineering, Bachelor of Software Engineering (BSE) 2015-2019
- **Relevant Coursework**
 - **Computer & Software Engineering** : Algorithms & Data Structures, Algorithm Design, Applied Machine Learning, Artificial Intelligence, Distributed Systems, Computer Organization, Database Systems, Intro to Software Eng., Model-Based Programming, Operating Systems, Parallel Computing, Realistic Image Synthesis, Signals & Networks, Software Engineering Practice, Software Delivery, Software Validation
 - **Mathematics** : Discrete Math, Calculus III, Linear Algebra, ODEs for Engineers, Probability & Stats for Engineers

EXPERIENCE

- **The MITRE Corporation** Bedford, MA
Cyber Security Intern May 2018 - August 2019
 - Identified potential vulnerabilities in a simulated avionics environment before proposing mitigation techniques to the team through documentation and presentation
 - Developed prototype Git infrastructure to allow fast code search and fine-grained access control on secure files for an internal project
 - Performed security based code evaluations on internal and open-source applications using tools such as Fortify, Klocwork, and Semmlle
 - Created a continuous integration & deployment pipeline to be used in development of an internal Python project

PUBLICATIONS

- D. Abrie, O. E. Clark, M. Caminiti, K. Gallaba, and S. McIntosh , “Can Duplicate Questions on Stack Overflow Benefit the Software Development Community?”, In *Proceedings of the 16th International Conference on Mining Software Repositories (MSR), Mining challenge*, pp. 230–234, May 2019.

PROJECTS

- **Viking Chess AI** Artificial Intelligence - Winter 2018
 - Developed a Java game playing agent to play Viking Chess utilizing a unique variation of a mini-max algorithm
 - Game agent competed in a round robin style tournament against 300+ classmates
- **Distributed Reservation System** Distributed Systems - Fall 2018
 - Distributed a Java reservation system across several servers by using a middleware based tiered architecture
 - Fully implemented persistent memory, failure handling, 2-phase commit, and 2-phase locking
- **Full Stack Web Application** Database Systems - Winter 2018
 - Developed an online grocery store web application using Angular 2, Flask, and PostgreSQL
 - Primary contributor for the backend (database) component. Optimized queries for faster content delivery and designed database structure to meet the applications requirements
 - Worked in a four person team and using Git version control and GitHub issues as a primary method of project management

PROGRAMMING LANGUAGES & TECHNOLOGIES

- **Languages** : Java, Python, C/C++, Bash, SQL, JavaScript, HTML/CSS
- **Technologies** : Git, JUnit, Maven/Gradle/CMake, TravisCI, Docker, Android Studio, Flask, Angular 2, PostgreSQL, openSCAD, Latex, CUDA